

Commonwealth of Massachusetts
Department of Telecommunications and Energy
Fitchburg Gas and Electric Light Company
Docket Nos. D.T.E. 02-24 and D.T.E. 02-25
Responses to the Department's Second Set of Information Requests

Request No. DTE 2-25:

Refer to Exhibit FGE-MHC-1 (Electric) at 18. Please provide the engineering analyses intended to determine transformer capacity between the Princeton Road substation and the Sawyer Passway substation.

Response:

The analyses referred to in Exhibit FGE-MHC-1 (Electric) at 18 were summarized in a report issued August 11, 2000. At that time, two 12/16/20 MVA transformers were on order for the new Sawyer Passway substation, which was under construction. These transformers were identical to the two 12/16/20 MVA transformers in-service at Princeton Road substation. Thus, there was an opportunity to cancel one or both transformers on order for Sawyer Passway and instead transfer the transformers from Princeton Road, thereby achieving significant savings.

Engineering performed a review of the capacity requirements for Sawyer Passway substation, Princeton Road substation, as well as other substation locations around the FG&E system. This study included an analysis of FG&E's anticipated distribution substation loading through 2002, incorporated known or expected load additions by large customers, and identified constraints on substation transformers within the system. The final report concluded that FG&E should move forward with delivery of both 12/16/20 MVA transformers for Sawyer Passway, while maintaining both in-service units at Princeton Road. Economic analysis demonstrating that this represented the most cost-effective solution to address capacity requirements supported this recommendation.

A copy of the report is included as Attachment DTE 2-25, Electric Division.

Person Responsible: Mark H. Collin